

KATHRYN WONG

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Keck School of Medicine / California Institute of Technology · MD/PhD Candidate
University of California, Berkeley · BA Molecular and Cell Biology 2017

Professional and Academic Experience

Custom Antibody Development, Abcam (Burlingame, CA)

Research Associate: May – June 2018 / Laboratory Assistant: December 2017 – May 2018

- Worked as a member of both hybridoma development team and assay team.
- Performed all cell culture operations involved in isolation and manufacture of custom monoclonal antibodies, including hybridoma generation and maintenance, and high throughput screening tests for antibody sensitivity and specificity.
- Work resulted in validation and optimization of new methods for antibody characterization.

Kuriyan Lab, UC Berkeley (Berkeley, CA)

Undergraduate Researcher: September 2013 – May 2017

- Investigated regulation mechanisms of the MAPK pathway.
- Projects include tail-kinase interactions and asymmetric dimerization of EGFR, tail-mediated inhibition in SOS, protein purification of full-length RAF, and development of stable cell line with inducible MAPK expression.
- Work resulted in publications in *Science* and *Molecular and Cellular Biology*.

Liver and Kidney Transplantation, California Pacific Medical Center (San Francisco, CA)

Research Intern: June – July 2015

- Studied patient outcomes for simultaneous pancreas/kidney transplantation in type 2 diabetes.
- Worked with doctors, surgeons, and physician assistants in liver and kidney transplantation, pediatrics, and neurology.
- Work resulted in presentation at *American Transplant Congress*.

Analytics, Intel (Santa Clara, CA)

Summer Intern: June – August 2013

- Created weekly status indicator reports, including data pulls from global database and trend charts.

- Work resulted in summary report presented to senior management contrasting mid-quarter financial plan with actual expenditure.

Zabel Lab, Stanford University and Veterans Affairs Hospital (Palo Alto, CA)

Research Intern: June 2012 – May 2013

- Evaluated dendritic cell growth factor FLT3L as a potential suppressor of autoimmune and allergic diseases.
- Designed and conducted *in vivo* sepsis disease model, as well as pharmacokinetics study of novel FLT3L-FC chimeric protein.
- Work resulted in publication in *Journal of Immunological Methods*.

Publications and Presentations

Publications

- Kondo, Y., J. Ognjenović, S. Banerjee, D. Karandur, A. Merk, K. Kulhanek, K. Wong, J.P. Roose, S. Subramaniam, and J. Kuriyan. 2019. Cryo-EM structure of a dimeric B-Raf:14-3-3 complex reveals asymmetry in the active sites of B-Raf kinases. *Science*. 366:109–115.
- Kovacs, E., R. Das, Q. Wang, T.S. Collier, A. Cantor, Y. Huang, K. Wong, A. Mirza, T. Barros, P. Grob, N. Jura, R. Bose, and J. Kuriyan. 2015. Analysis of the Role of the C-Terminal Tail in the Regulation of the Epidermal Growth Factor Receptor. *Mol. Cell. Biol.* 35:3083–3102.
- Tu, H., T.M. Burke, C. Oderup, K. Huang, K. Wong, S. Lewén, M. LaJevic, and B.A. Zabel. 2014. Robust expansion of dendritic cells *in vivo* by hydrodynamic FLT3L-FC gene transfer. *J. Immunol. Methods.* 413:69–73.

Presentations

- Simultaneous Pancreas and Kidney Transplantation for Type 2 Diabetes – American Transplant Congress, Jun 2016
- Fms-like tyrosine kinase 3 ligand: In autoimmune, allergic, and infectious disease models – Junior Science and Humanities Symposium, Feb 2013

Posters

- Expression and purification of full-length bRaf – UC Berkeley Molecular and Cell Biology Poster Session, May 2017
- Pharmacokinetics study of FC-FLT3 – Synopsys Silicon Valley Science and Technology Championship, Mar 2013
- Preclinical evaluation of fms-like tyrosine kinase 3 ligand (FLT3L) in autoimmunity, allergy, and infection – Siemens Competition, Sep 2012